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27849

PATENT TRADEMARK OFFICE

17510 U.S. PTO  
10/730998



TO: Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Attorney Docket No. 253/043  
(must include alphanumeric codes if no inventors named)

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(new nonprovisional applications under 37 CFR 1.53(b))**

Transmitted herewith for filing is the patent application of:

**INVENTOR(S): Gyeong-Su KEUM, Gum-Hyun SHIN, Hyung-Sik HONG, Kyue-Sang CHOI, Chung-Hun PARK**

**TITLE: POLARITY EXCHANGER AND ION IMPLANTER HAVING THE SAME**

In connection with this application, the following are enclosed:

**APPLICATION ELEMENTS:**

XX Specification - 29 TOTAL PAGES

(preferred arrangement:)

- Descriptive Title of the Invention
- Cross Reference to Related Applications
- Statement Regard Fed sponsored R&D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

XX Drawings - Total Sheets 4

XX Declaration and Power of Attorney - Total Sheets 3

XX Newly executed (original or copy)

\_\_\_ Copy from a prior application (37 CFR 1.63(d))

(relates to continuation/divisional boxes completed) - NOTE: Box below

\_\_\_ DELETION OF INVENTOR(S) - Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

\_\_\_ Incorporation By Reference (useable if copy of prior application Declaration being submitted)

The entire disclosure of the prior application, from which a COPY of the oath or declaration is supplied as noted above, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

\_\_\_ Microfiche Computer Program (Appendix)

\_\_\_ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)

\_\_\_ Computer Readable Copy

\_\_\_ Paper Copy (identical to computer copy)

\_\_\_ Statement verifying identify of above copies

**ACCOMPANYING APPLICATION PARTS**

☒ Assignment Papers (cover sheet & document(s))  
☐ 37 CFR 3.73(b) Statement (when there is an assignee)  
☐ English Translation Document (if applicable)  
☐ Information Disclosure Statement(IDS) with PTO-1449. ☐ Copies of IDS Citations  
☐ Preliminary Amendment  
☒ Return Receipt Postcard (MPEP 503)  
☐ Small Entity Statement(s)  
☐ Statement file in prior application, status still proper and desired.  
☒ Certified Copy of Priority Document(s) with Claim of Priority  
(if foreign priority is claimed).  
☐ OTHER: Check for

If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)  
of prior application Serial No. ☐.

☐ Amend the specification by inserting before the first line the following sentence: --This application is a ☐ continuation, divisional or ☐ continuation-in-part of application Serial No. ☐, filed ☐.--

**CORRESPONDENCE ADDRESS:**

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**FEE CALCULATIONS:** (Small entity fees indicated in parentheses.)


(1) For	(2) Number Filed	(3) Number Extra	(4) Rate	(5) Basic Fee \$770.00 (\$385)
Total Claims	19 - 20 =	0	x \$18 (x \$9)	0.00
Independent Claims	2 - 3 =	0	x \$86 (x \$43)	0.00
Multiple Dependent Claims			\$290 (\$145)	0.00
Assignment Recording Fee per property			\$40	40.00
TOTAL FEE:				810.00

**METHOD OF PAYMENT:**

The Commissioner is hereby authorized to charge the fees connected with the filing of this application to Deposit Account No. 5-01645.

Date: December 10, 2003

Respectfully submitted,

  
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